THE SEEDSMAN'S ASSISTANT

BUYING—SYNONYMS—FILLING PACKETS

CHARLES JOHNSON

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THE

SEEDSMAN'S ASSISTANT.

Compendium of the Growing Sources of Seeds, Vegetables and Flowers.

SHOWING ADDRESSES, ALPHABETICALLY ARRANGED, OF MORE THAN ONE HUNDRED AND THIRTY OF THE MOST PROMINENT SEED-GROWING ESTABLISHMENTS IN AMERICA AND EUROPE. CLASSIFICATION OF THE DIFFERENT VARIETIES WITH NAMES OF GROWERS THAT ARE CLOSELY IDENTIFIED WITH PARTICULAR KINDS. ALSO,

Full List of Synonyms of Familiarly Known Varieties of Vegetables

Table of Standard Quantities of Vegetable and Flower Seeds for filling small packets.

FORMULAS FOR PREPARING CELEBRATED LAWN GRASS MIXTURES.
SUGGESTIONS FOR MAKING OUT A CATALOGUE.

BY
CHARLES JOHNSON.

SOLD ONLY BY SUBSCRIPTION.

MARIETTA, PA.
1904.

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INTRODUCTORY.

The seed business in America is now conducted on such a large scale, covering wide and diverse conditions, that those engaged in it may be said to be divided into two distinct classes, namely, the seed dealers (both wholesale and retail) and the seed growers proper. Obviously the former constitute a conspicuous part of the commercial life of cities, while the latter are more closely identified with the soil, being strictly commercial seed producers, *i. e.*, those who grow for the former.

Prominent in the first class, or the seed dealers, may be mentioned such well-known houses as D. M. Ferry & Co., of Detroit; D. Landreth Seed Co., Robert Buist Seed Co., W. Atlee Burpee & Co., all of Philadelphia; Jerome B. Rice & Co., of Cambridge, N. Y.; J. M. Thorburn & Co. and Peter Henderson & Co., of New York City; the Leonard Seed Co. and J. C. Vaughn, of Chicago, and the Plant Seed Co., of St. Louis.

Those in the other class, namely, the growers of seeds, do not come prominently before the public.

In a general sense, this class may be termed the fountain-head of the seed business, for obviously it is the producer—the man who actually gets to the earth—that is the mainstay of the industry.

The seed-growing firms of the country are managed according to systematic business principles; some on a large scale, others with less capital, while a number are specialists in certain lines.

The expression "Seed Grower" implies something more than the mere act of growing certain seeds: it means that those to whom it is applied have selected the conditions of soil and climate best calculated to produce plump, vigorous, fertile seed; hence we find that no one locality produces all the seed that finds its way into the avenues of trade, and that no country or section has a monopoly of seed-growing as a whole.

To know the growers in each locality who produce particular kinds of seed necessarily requires a more extensive fund of information than is possessed by the average seed buyer. This of itself makes a reliable compendium of the seed-growing industry of value to all interested in the trade.

In the interest of the jobbing and retail trade the compiler has produced such a list, giving the names of the most reliable concerns located in both America and Europe who make an exclusive business of seed-growing, included in which are over

twenty-five concerns making a specialty of Peas and Beans; eight or more of Cabbage: a like number of Tomato, Cucumber, Lettuce, Onion, Melon, Beet, Radish, Turnip, etc., also the foreign growers of the Bermuda and Bloomsdale Early Pearl Onion. It has been arranged in such a manner that it will be invaluable to any seed dealer, whether he be a novice or an adept. We believe that whoever makes use of the data contained in this compendium will be enabled to make purchases to better advantage and at the lowest possible price.

In style and arrangement the work presents the information and addresses in such a manner that it will be easy to refer to any subject, firm or location without loss of time or vexatious delay. In brief, there is an alphabetical list of growers with their addresses; then the proper classification of the different varieties of vegetable and flower seeds with the names of growers that are closely identified with the growing of particular varieties; in addition there are given suggestions bearing on the salient features of buying.

Incorporated with the compendium of growing-sources and suggestions for seed buyers, there are included several other features of importance. Of these, to be mentioned first, is a list of recent growers'-prices for the best seeds. This is known to be the first time that such a complete list of this

kind has ever been published. For the expert seed buyer it will be of assistance to have at hand when renewing his contracts, and for the novice it will be a guide in making his first orders with the grower.

Next, there is furnished a list of the synonyms of familiar varieties of vegetables. Rather, this ought to be entitled a dictionary of the aliases under which so many old-fashioned, can't-do-without-'em varieties are now masquerading. Not only by the seed-buyer, but by the man behind the gun in the seed establishment, the man who puts up the orders, will this list be appreciated, as it will save time, worry and money. It will further entertain the novice by enlightening him as to how so many so-called "novelties" have originated.

Then in connection with giving addresses of manufacturers of illustrated seed bags, it has been deemed proper to furnish a table of the standard quantities of seeds, vegetables and flowers, for filling small packets. As a matter of economy this table will be found indispensable by every seed dealer who puts up his own papers. Many are in the habit of using a scale prepared by guess work for such purpose; some just fill their papers "any old way" with no regard to uniformity as to quantity, and, in fact, nearly all inadvertently overfill their packets. They give more seeds than are really

necessary. The table in question is similar to that used by the principal seed houses. The quantities are carefully gauged to cover what is requisite for an ordinary family garden. Take, for example, a 5-cent packet of cabbage. The standard quantity will produce about 200 plants, which is more than ample for the usual family. This illustration applies to every other variety. To give more than the quantities specified is a waste. In filling many packets this waste materially affects the profit-and-loss account.

With information where to obtain "electros" of vegetables and flowers for catalogue purposes, there are some suggestions given on another page as to the best manner for making up a seed catalogue.

Finally, there are presented several excellent formulas for preparing lawn-grass seed and a lawn fertilizer.

The whole work represents the experience of the compiler in the seed business, now covering more than a quarter of a century's association with one of the largest and best known establishments in the country, namely, the Landreths of Philadelphia; coupled with an additional five years' experience as a Seedsman in Chicago; a short period with a large seed house in Memphis, Tenn., and lastly, ten years' experience in California as a member of the Johnson & Musser Seed Co.—from which

concern he has only recently retired—all of which ought to establish his authority on the practical and commercial phases of the seed business.

CHARLES JOHNSON.

MARIETTA, PA., JULY 1, 1904.

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ALPHABETICAL LIST OF SEED GROWERS, WITH THEIR ADDRESSES.

All here named are reliable seed growers in good standing, and it will be well to keep in touch with every one regarding prices and particulars by making special request for same, if not sent to you early without solicitation. Disdain no information; in the seed business one is never done learning.

A.

Agnew, H. C. & J. B., Agnew, Cal.
Alexander Seed Co., Augusta, Ga.
Allen, C. L., Floral Park, N. Y.
Allen, J. H., Seed Co., Sturgeon Bay, Wis.
Allen, R., & Son, Ballymena, Ireland.
Andrews, D. M., Boulder, Colo.
Anthony, H. C., Portsmouth, R. I.

B.

Baer, Chas., Turner, Oregon.
Barnard, Frank E., Ventura, Cal.
Barr & Sons, 11–13 King St., Covent Garden, London, Eng.
Barter, John F., Sudbury, Middlesex, Eng.
Beatty Mercantile Co., Manzanola, Colo.
Benary, Ernst, Erfurt, Prussia.

L. of C.

Berry, A. A., Seed Co., Clarinda, Iowa.
Blackman & Griffin, Ogden, Utah.
Blanc, A., Oak Lane, Philadelphia, Pa.
Blodgett, V. E., Santa Ana, Cal.
Bodger, John, & Son, Santa Paula, Cal.
Boggs, Caleb, & Son, Cheswold, Del.
Bowell, F. M., Rolling Prairie, Ind.
Box, John R., West Wickham, Kent, Eng.
Braslan Seed Growers Co., San José, Cal.
Brill, Francis, Hempstead, L. I., N. Y.
Bryant, J. M., 706 Chestnut St., Philadelphia, Pa.
Bull, Wm., & Sons, King's Road, Chelsea, London, S. W., Eng.
Burbank, Luther, Santa Rosa, Cal.
Busquers, Wm. E., & Co., Arnheim, Holland.

C.

California Carnation Co., Loomis, Cal.
Carter, C. J., & Son, Wallace, N. C.
Carter, Jas., Dunnett & Beale, London, Eng.
Chin-Ah-Coon Seed Growing Co., Sunnyvale, Cal.
Cincinnati Bag Co., 2d & Walnut Sts., Cincinnati, O.
Clark, A. N., Milford, Conn.
Clark, C. S., Wakeman, O.
Clark Bros., 61 Ann St., New York City.
Clark, E. B., & Sons, Milford, Conn.
Cole, Sam'l, Ventura, Cal.
Collins, A. J., Moorestown, N. J.
Comstock, Ferre & Co., Wethersfield, Conn.
Connell, H. H., Guernsey, Iowa.

Cooper, Taber & Co., London, Eng.
Corry, J. C., Enid, Okla.
Courteen, S. G., Milwaukee, Wis.
Cowee, Arthur, Berlin, N. Y.
Cox Seed Co., San Francisco, Cal.
Coy, C. P. & Son, Waterloo, Neb.
Croom, J. F., & Bro., Magnolia, N. C.
Cullen, Thos., Witham, Essex, Eng.
Cushman Gladiolus Co., Sylvania, O.

D.

Damman & Co., San Giovanni a Teduccio, Italy.
Dana, J. C., & Co., Sturgeon Bay, Wis.
Davy, Beaufort, Main & Loire, France.
Degraff Bros., Leiden, Holland.
Delvondie, E. F., New Orleans, La.
Dennison, W. A., Ellisburg, N. Y.
Dickinson, Albert, Seed Co., Chicago, Ill.
Dippe Bros., Quedlinburg, Germany.

E.

Egger, Geo., Jaffa, Palestine.
Eldering, W. J., & Son, Overveen, Harlem, Holland.
Ellery, H. E., Carpenteria, Cal.
English, John F., & Co., Clay and Davis Sts., San Francisco, Cal.
Evans Seed Co., West Branch, Mich.

F.

Falk & Buchan, Sturgeon Bay, Wis.
Farmer, A. A., Lafayette, Kans.

Finch, F., Clyde, N. Y.
Fish, Henry, Santa Barbara, Cal.
Ford, Chas., Co., Watsonville, Cal.
Fosgate, W. J., Santa Clara, Cal.
Franklin, C. B., Carpenteria, Cal.
Frith, Chas. A. V., Hamilton, Bermuda.
Frith & Co., Nashville, Tenn.
Fuller, Arthur, Santa Ana, Cal.
Furrow Bros., Guthrie, Okla.

G.

Gair, Robert, Brooklyn, N. Y.
Gates, J. & Chas., Hardesty, Okla.
Germain Seed Co., Los Angeles, Cal.
Gilbert, D. H., Monticello, Fla.
Glecner & Faust, 123 Mott St., New York.
Goodale, B. E., Calverton, L. I., N. Y.
Gould, Thos., Ventura, Cal.
Green, W. F., Bellville, N. Y.
Grenell, W. H., Pierrepont Manor, N. Y.
Griffing Bros. Co., Jacksonville, Fla.
Grim, E. A., & Co., Hamburg, Germany.
Griswold, Thos., & Co., S. Wethersfield, Conn.
Groves, J. H., & Son, Magnolia, N. C.
Grullemans, J. J., & Son, Lisse, Holland.

H.

Haage & Schmidt, Erfurt, Prussia.
Hall, John M., Miller, Cal.
Hansen, A., Copenhagen, F., Denmark.

Hansom, Jos., Arroyo Grande, Cal.
Harrison & Son, Leicester, Eng.
Hart, Wells & Co., Wethersfield, Conn.
Hasslach & Roumanville, St. Remy de Provence, France.
Haven Seed Co., Arroyo Grande, Cal.
Heineman, F. C., Erfurt, Germany.
Helm, T. W., & Co., Birmingham, Ala.
Henry, John, Beaverton, Oregon.
Herb, M., Naples, Italy.
Hillebrand, Uberto, Pallanza, Italy.
Hjalmar, Hartman & Co., Copenhagen, Denmark.
Hodge, Frank, Alton, Cal.
Houdry, Fils, Dol de Bretagne, France.
Hubert & Co., Guernsey, Channel Is., Eng.
Hume, John, Port Hope, Can.
Hurst & Son, 152 Hamsditch, London, Eng.

J.

James, R. K., Rural Route No. 3, Rocky Ford, Colo.
Jannette Bros., Mt. Pleasant, S. C.
Jensch, Gustav, & Co., Aschers Leben, Germany.
Johnson, L. M., Tustin Cal.
Johnson, W. W., & Sons, Lim'd, Boston, Eng.
Jones, H. P., Herndon, Ga.

K.

Keeney, N. B., & Son, Le Roy, N. Y.
Kelsey, Joseph B., Sawtelle, Cal.
Kennell, John Fay, Box 405, Rochester, N. Y.
Kimberlin, J. M., & Son, Santa Clara, Cal.
King, J. K., Coggleshall, Essex, Eng.

L.

Ladd Seed Co., Adrian, Mich.
Lecoq, A., & Co., Darmstadt, Germany.
Little & Ballantyne, Carlisle, Eng.
Loomis Floral Co., Loomis, Cal.
Lupton, J. M., Mattituck, L. I., N. Y.

Mc.

McCullough's, J. M., Sons, Cincinnati, O.
McFarland, J. Horace, Co., Harrisburg, Pa.
McMorran–Gray Co., Port Huron, Mich.
McNeen, Jas., La Junta, Colo.

M.

March, H. A., Anacortes, Wash.
Mette, Henry, Quedlinburg, Germany.
Merwin, Marcus, Milford, Conn.
Merwin, W. S., & S. T., Milford, Conn.
Morrison, E. H., Fairfield, Wash.
Morse, C. C., & Co., Santa Clara, Cal.

N.

Newbury, H. E., Co., Magnolia, N. C.
Niagara Lithograph Co., Buffalo, N. Y.
Nutting & Sons, 106 Southwark St., London, Eng.

O.

Orcutt Seed & Plant Co., San Diego, Cal.

P.

Pape & Bermann, Quedlinburg, Germany.
Parker, Chas., Santa Clara, Cal.

Parsons, E. B., Penn Valley, Pa.
Paxson, J. V., Lake Side, Mich.
Peacock, W. P., Atco, N. J.
Pederson, J., Copenhagen, Denmark.
Pedrick, Geo. R., Pedrick Town, N. J.
Peignaux & Lorain, Angers, France.
Peppard, J. G., Kansas City, Mo.
Perkins, Mitchell B., Beverly, N. J.
Portland Seed Co., Portland, Oregon.

R.

Ragland, R. L., Hyco, Va.
Rees & Gompers, R. F. D. No. 1, Long Beach, Cal.
Ridgway, Isaac, Greenwich, N. J.
Roberts & Holder, Brain, Sur Anthion, France.
Robichaux, Edgar, Raceland, La.
Robinson, J. C., Waterloo, Neb.
Roemer, Fred, Quedlinburg, Germany.
Rogers Bros., Chaumont, N. Y.
Rohnert, Waldo, Gilroy, Cal.
Routzahn Seed Co., Arroyo Grande, Cal.
Rumph, L. A., Marshallville, Ga.
Russ, Howard A., Delanco, N. J.

S.

Sachs, David, Quedlinburg, Germany.
Sagarniroya, Jose, Havana, Cuba.
Santa Paula Commercial Co., Santa Paula, Cal.
Shaft, W., Fullerton, Cal.
Shenkel, Albert, Hamburg, Germany.
Sluis & Groot, Enkhuisen, Holland.

Smith, N. E., Milford, Conn.
Smurthwaite, C. A., Produce Co., Ogden, Utah.
Southern Pacific Milling Co., Saticoy, Cal.
Spangler, E. J., & Co., 507 Ludlow St., Philadelphia, Pa.
Spears, E. F., & Sons, Paris, Ky.
Speelman, C. J., Sons, Sassenheim, Holland.
Spittel, Friederick, Arnstadt, near Erfurt, Germany.
Squiers, J. H., Wellington, Ont.
Stallknecht & Meyer, Copenhagen, Denmark.
Stanley, Ashton & Co., South Gate, London N., Eng.
Stecher Lithographing Co., Rochester, N. Y.
Surrey Seed Co., Lim'd, Red Hill, Eng.
Sutton & Sons, Reading, Eng.
Suzuki & Iida, 31 Barclay St., New York.
Swan, N. D., Belleville, N. Y.

T.

Taylor, C. M., Georgetown, Ky.
The General Bulb Co., Vogelenzung, Holland.
The Munson Co., New Haven, Conn.
Tousley, J. F., Pierrepont Manor, N. Y.
Tucker, H. V., Liberal, Kan.

V.

Van Waveren, L. & Co., Hillegom, Holland.
Vilmorin, Andrieux & Co., 4 Quai de la Megisserie, Paris, France.
Vogeler Seed & Produce Co., Salt Lake City, Utah.
Volkman, C. M., & Co., 408 Front St., San Francisco, Cal.

Vrendenburg & Co., Rochester, N. Y.

W.

Wall, H. M., Litho. Co., Frost & Leonard Sts., Brooklyn, N. Y.
Wather, Wm., Belleville, N. Y.
Watkins, S. L., Fair Oaks, Cal.
Watkins, W. G., Placerville, Cal.
Watkins & Simpson, 12 Tavistock St., Covent Garden, London, Eng.
West, Geo. W., Shelly Bay, Bermuda.
Western Seed & Irrigation Co., Fremont, Neb.
Wherry, W. R., & Co., Bourne, Eng.
Whitney, Eckstein & Co., Buffalo, N. Y.
Wilcox, Alvin C., Roscoe, Ill.
Wilcox, Frank T., Santa Clara, Cal.
Wilcox, H. W., Whitby, Ontario.
Wilde, W. G., Ventura, Cal.
Wildpret Bros., Port Orotava, Teneriffe, Canary Islands.
Willett, N. L., Drug Co., Augusta, Ga.
Williams, F., Belleville, N. Y.
Woodruff, F. H., & Sons, Milford, Conn.
Woodruff, S. N., & Sons, Orange, Conn.
Wright, C. R., Liberal, Kan.
Wright, W. G., San Bernardino, Cal.

Y.

Young, Willis G., 323 Brown St., Dayton, O.

Z.

Zippe, H., & Co., Lisse, Holland.

CLASSIFICATION OF THE DIFFERENT VARIETIES OF VEGETABLE AND FLOWER SEEDS, WITH THE NAMES OF GROWERS THAT ARE CLOSELY IDENTIFIED WITH THE GROWING OF PARTICULAR VARIETIES, ALSO SUGGESTIONS BEARING ON THE SALIENT FEATURES OF BUYING.

The alphabetical list is referred to for the addresses of growers. It is deemed unnecessary to give them here, owing to constant repetitions of the same firm-names.

The moderate purchaser is advised as a matter of economy in freight, and to insure the best prices, that his orders should not be divided up among too many growers.

Artichoke.

Buy Large Globe Artichoke for America.

Procure in Europe. The European firms in the alphabetical list generally can supply.

Two of the most prominent houses are specially named.

Dippe Bros.

Vilmorin, Andrieux & Co.

Asparagus.

Seed is usually obtainable cheaper in America. Europe also supplies reliable seed. Two prominent houses are named in that quarter.

Allen, C. L., & Co.
Brill, Francis.
Jannette Bros.
Sluis & Groot.
Vilmorin, Andrieux & Co.

Asparagus Roots.

Usually some nurseryman in the immediate vicinity of every town of any importance is able to supply Asparagus roots. These two growers, however, are named, correspondence with whom will give information as to growers' prices.

Collins, A. J.
Ridgeway, Isaac.

Beans.

For dealers located in the East, the East is, owing to its advantage in freight rates, the best general source, particularly for Bush varieties. Limas, both Pole and Bush, should be procured in California. There they are grown more cheaply than in the East, and for seed purposes California Limas are just as reliable as any grown in the East, in fact more so. That section is now depended on entirely for Limas by the seed trade. It is also a good quarter for other pole varieties.

Advice is to write about Jan. 15th for best prices to

all the firms named, and make your contracts as early as possible after that time.

Eastern Growers.

*Allen, J. H., Seed Co.
*Dana, J. C., & Co.
*Dennison, W. A.
*Falk & Buchan.
*Green, W. F.
*Grenell, W. H.
*Hume, John.
*Keeney, N. B., & Son.
*McMorran–Gray Co.
*Rogers Bros.
*Squires, J. H.
*Swan, N. D.
*Tousley, J. P.
*Wather, Wm.
*Wilcox, H. W.

California Growers.

*Barnard, Frank E.
Baer, Charles.
Blodgett, V. E.
*Bodger, John, & Sons.
Ellery, H. E.
Franklin, C. B.
*Fish, Henry.
Gould, Thomas.
Ford, Chas., Co.
Hanson, Jos.

Kelsey, Jos. B.
Johnson, L. N.
*Routzahn Seed Co.
*Santa Paula Commercial Co.
Shaft, Wm.
Southern Pacific Millg. Co.

All marked with * are leaders.

Beet.

Purchase both table and field sorts in Europe.

All the best seed houses in America buy in Europe; California seed is not advised.

E. H. Morrison, Fairfield, Washington, is a new grower who is having some success in growing Beet; has one of Vilmorin's men as manager; would advise giving him small trial order if he meets European quotations.

Get quotations from all firms named.

It takes two years to produce a crop; contract should be placed in Europe between July 1st and Sept. 1st.

European Growers.

Carter, James, Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Hurst & Son.
Mette, Henry.
Nutting & Sons.
Sachs, David.
Sluis & Groot.
Vilmorin, Andrieux & Co.

American Growers.

Bodger, John, & Sons.
Hall, John M.
Morrison, E. H.
Morse, C. C., & Co.
Routzahn Seed Co.

Broccoli—Brussels Sprouts.

Purchase in Europe; make contract between July 1st and September 1st. The following prominent growers are specially named:

Carter, James, Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Hurst & Son.
Mette, Henry.
Sachs, David.
Sluis & Groot,
Vilmorin, Andrieux & Co.

Cabbage.

Long Island is the main source in America and there is no better source. An extensive Eastern house, however, has been procuring its stocks from growers in the State of Washington; seed grown in that quarter is equal to Long Island; name of one grower there is given.

European stocks of the following are reliable and do perfectly well in America, and owing to cheaper prices, are usually purchased by some of the larger houses and sold as American seed, viz.: Etampes, Early York, Early Spring, Early Drumhead, Early Flat Dutch,

Early Winnigstadt, Red Dutch, Green Curled and Drumhead Savoy.

Contract in America by April 1st; in Europe between July 1st and Sept. 1st.

American Growers.

Allen, C. A.
Anthony, H. C.
Brill, Francis.
Goodale, B. E.
Lupton, J. M.
March, H. A.
Woodhull, Z. M.

European Growers.

Benary, Ernst.
Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Hjalmar, Hartman & Co.
Pederson, J.
Sachs, David.
Sluis & Groot.
Vilmorin, Andrieux & Co.

Carrot.

European seed is without superior and is preferred by the best houses; in recent years California has been moving to the front. That State should produce seed equal to European; with additional experience and favorable prices, its growers will ultimately secure the trade with which Europe is now favored.

Connecticut and Rhode Island stocks are first class, but have cost more to grow than elsewhere.

Contract in America should be made between December 1st and March 1st; in Europe between July 1st and September 1st; it is advisable to correspond with every house named and get in touch with them all regarding prices.

American Growers.

Agnew, H. C. & J. B.
Anthony, H. C.
Braslan Seed Growers Co.
Clark, A. N.
Clark, E. B., & Sons.
Comstock, Ferre & Co.
Cox Seed Co.
Kimberlin, J. M., & Sons.
Merwin, Marcus.
Merwin, W. S. & S. T.
Morse, C. C., & Co.
Routzahn Seed Co.

European Growers.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Hurst & Son.
Jensch, Gustav, & Co.
Mette, Henry.
Nutting & Sons.
Peignaux & Lorain.

Sachs, David.
Sluis & Groot.
Spittell, Friederick.
Vilmorin, Andrieux & Co.

Cauliflower.

Northern Europe is the best source. In America, March, in the State of Washington, supplies seed that is affirmed to be equal to European.

Benary, Ernst.
Dippe Bros.
Hansen, A.
Hjalmar, Hartman & Co.
March, H. A.
Pederson, J.
Sluis & Groot.
Vilmorin, Andrieux & Co.

Celery.

Purchase all sorts in California, excepting Paris Golden Yellow Self-Blanching, which it is advised to procure from Vilmorin, Andrieux & Co. This is the variety that is being grown extensively in the famous Celery sections of California and Florida, the product of which commands the best prices in the market; it is V. A. & Co.'s seed that is being sold at a high figure by reputable American seed firms.

Contract at same time as for Carrot.

Agnew, H. C. & J. B.
Braslan Seed Growers Co.
Kimberlin, J. M., & Sons.

Morse, C. C., & Co.
Routzahn Seed Co.
Vilmorin, Andrieux & Co.
Wilcox, Frank T.

Chervil; Chicory.

Same advice and sources as for Broccoli, to which refer.

Collards.

Georgia-grown seed is always to be preferred. Contract between January 1st and March 1st.

Alexander Seed Co.
Jones, H. P.
Vilmorin, Andrieux & Co.
Willett, N. L., Drug Co.

Corn (Sugar & Field).

Nebraska grows A 1 seed corn, but crops in that State were exceedingly short in 1902 and 1903, due to unfavorable weather.

Connecticut seed corn has no superior.

Get prices from all named. Contract by April 1st.

Anthony, H. C.
Berry, A. A., Seed Co.
Clark, A. N.
Clark, C. S.
Clark, E. B., & Sons.
Comstock, Ferre & Co.
Coy, C. P., & Son.
Griswold, Thos., & Co.

Hart, Wells & Co.
Merwin, Marcus.
Merwin, W. S. & S. T.
Robinson, J. C.
Western Seed & Irrigation Co.
Woodruff, F. H., & Sons.
Woodruff, S. N., & Sons.

Corn Salad.

Purchase in Europe; other growers than the following are able to supply, but England and Holland take the lead as the best sources.

Contract between July 1st and September 1st.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Sluis & Groot.

Cress.

Other European Houses than the following prominent firms are able to supply. Contract between July 1st and September 1st.

There is no reason why California should not grow Cress successfully, as it seems to revel in that climate; recently the Braslan Seed Growers Co., San José, Cal., have been growing it.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Sluis & Groot.

Cucumber.

Nebraska grows A 1 Cucumber and has heretofore been favored with the trade of the larger Houses; but

crops in 1902 and 1903 were almost total failures, due to ravages of lice. The tendency since is, therefore, for a while at least, to divert contracts to other sources. Names of growers are given, located in Colorado, Connecticut, Michigan and New Jersey.

As Cucumber seed is good running six to eight years old (older seed is more fruitful than one year old), it is advisable in 1904 to contract for a sufficient supply to last for several years, until the prevailing scarcity in the market is overcome. Get prices from all named. Contract by April 1st.

Bishop, W. R., & Co.
Bowell, F. M.
Berry, A. A., Seed Co.
Burrell, D. V.
Clark, A. N.
Clark, E. B., & Son.
Comstock, Ferre & Co.
Coy, C. P., & Son.
James, R. H.
Ladd Seed Co.
Paxson, J. D.
Robinson, J. C.
Western Seed & Irrigation Co.
Woodruff, F. H., & Sons.
Woodruff, S. N., & Sons.

Egg Plant.

Russ, who is named, has a first-class reputation; grows for the best New York, Philadelphia and Balti-

more houses; makes a specialty of the Spineless Large New York Purple. Make your contract about April 1st.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Pedrick, Geo. R.
Russ, Howard A.

Endive.

Procure in California; make contract by March 1st.

Agnew, H. C. & J. B.
Bodger, John, & Sons.
Braslan Seed Growers Co.
Fosgate, W. J.
Kimberlin, J. M., & Sons.
Morse, C. C., & Co.
Parker, Chas.
Routzahn Seed Co.
Wilcox, F. T.

Kale.

European stocks are without superior. Get quotations from all named, before making contract, which should be done in America by April 1st; in Europe between June 1st and September 1st.

Allen, C. L.
Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Hurst & Son.
Sluis & Groot.

Kohl Rabi.

Procure in Europe; other European houses than the following prominent ones named, can also furnish. Contract between July 1st and September 1st.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Mette, Henry.
Sachs, David.
Sluis & Groot.
Vilmorin, Andrieux & Co.

Leek.

Contract should be made in America by March 1st, in Europe between June 1st and September 1st.

Agnew, H. C. & J. B.
Bodger, John, & Sons.
Braslan Seed Growers Co.
Fosgate, W. J.
Kimberlin, J. M., & Sons.
Morse, C. C., & Co.
Parker, Chas.
Routzahn Seed Co.
Wilcox, F. T.

Lettuce.

Procure in California, which State also grows for Europe. Make contract by March 1st, having secured quotations beforehand from all growers named.

Agnew, H. C. & J. B.

Bodger, John, & Sons.
Braslan Seed Growers Co.
Fosgate, W. J.
Kimberlin, J. M., & Sons.
Morse, C. C., & Co.
Parker, Chas.
Rohnert, Waldo.
Routzahn Seed Co.
Wilcox, F. T.

Melon (Musk).

Nebraska crops, on which the trade has mainly depended, were exceedingly short in 1902 and 1903. Secure quotations from each firm named, and make contract by April 1st.

Berry, A. A., Seed Co.
Bishop, W. R., & Co.
Burrell, D. V.
Coy, C. P., & Son.
Girardeau, W. N.
James, R. H.
Pedrick, Geo. R.
Robinson, J. C.
Western Seed & Irrigation Co.
Wilcox, Alvin C.

Melon (Water).

Inasmuch as Nebraska crops turned out short in 1902 and 1903, Oklahoma, Kansas and Iowa are recommended as other sources in the West. Contract by April 1st.

Berry, A. A., Seed Co.
Corry, J. C.
Coy, C. P., & Son.
Farmer, A. A.
Gates, J., & Chas.
Gilbert, D. H.
Girardeau, W. M.
Pedrick, Geo. R.
Robinson, J. C.
Tucker, H. V.
Western Seed & Irrigation Co.
Wright, C. R.

Mustard.

For American varieties, our own country is best source.

Alexander Seed Co.
Braslan Seed Growers Co.
Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Jones, H. P.
Kimberlin, J. M., & Son.
Morse, C. C., & Co.
Willett, N. L., Drug Co.

Okra.

Helm & Co. are the largest growers in the South. Perkins is the originator of Perkins' Okra. Contract should be placed by April 1st.

Alexander Seed Co.

Bishop, W. R., & Co.
Frith & Co.
Helm, T. W., & Co.
Perkins, Mitchell B.
Willett, N. L., Drug Co.

Onion.

American Varieties. Nothing is better than California seed, which section is the cheapest source of supply.

Bermuda. Procure from Teneriffe Island. California seed is not advised. Wildpret Bros. are first hands; Albert Shenkel also furnishes at reasonable prices; obtains supplies from his own growers on Teneriffe Island. Write both parties by Feb. 15th.

Early White Queen, Silver King, Giant Rocca, Red and White Tripoli. Use only European seed, as California stocks are not advised; French and German houses are recommended.

Bloomsdale Early Pearl is simply a synonym for Early White Queen purchased under latter title from Vilmorin, Andrieux & Co.

Creole Onion. Purchase from Edgar Robichaux.

Contract in Europe between July 1st and Sept. 1st; in America by March 1st.

American Growers.

Agnew, H. C., & J. B.
Braslan Seed Growers Co.
Chin-Ah-Coon Seed Growing Co.
Cox Seed Co.

Fosgate, W. J.
Henry, John.
Kimberlin, J. M., & Son.
Morse, C. C., & Co.
Parker, Chas.
Robichaux, Edgar.
Routzahn Seed Co.
Wilcox, F. T.

European Growers.

Damman & Co.
Dippe Bros.
Shenkel, Albert.
Vilmorin, Andrieux & Co.
Wildpret Bros.

Parsley.

European stocks are without superior; recently California has entered the field. Contract in California by March 1st; in Europe between July 1st and Sept. 1st, having secured quotations in advance from all firms named.

Braslan Seed Growers Co.
Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Morse, C. C., & Co.
Sachs, David.
Sluis & Groot.
Vilmorin, Andrieux & Co.

Parsnip.

European stocks are as reliable as any and have been procurable at cheaper prices than American growth. Purchase from that firm whose prices are most favorable. Contract in California by March 1st, in Connecticut by April 1st, in Europe between July 1st and September 1st.

Anthony, H. C.
Braslan Seed Growers Co.
Clark, E. B., & Sons.
Comstock, Ferre & Co.
Dippe Bros.
Morrison, E. H.
Morse, C. C., & Co.
Sachs, David.
Sluis & Groot.
Woodruff & Sons.

Peas (Table Varieties).

Owing to its advantage in freight rates, the East is the best source for Eastern dealers, though it is advisable to obtain quotations from the Pacific coast and keep posted regarding prices in that quarter; Pacific coast stocks are free from bugs. Contract in the East by March 1st; in California by February 1st.

Allen, J. H., Seed Co.
Baer, Charles.
Dana, J. C., & Co.
Dennison, W. A.
Falk & Buchan.

Green, W. F.
Hall, John M.
Hodge, Frank.
Keeney, N. B., & Son.
McMorran-Gray Co.
Morrison, E. H.
Rogers Bros.
Squiers, J. H.
Swan, N. D.
Tousley, J. M.
Wather, Wm.
Wilcox, H. W.
Williams, F.

Peas (Field).

Sometimes all the Eastern Pea growers are in position to offer Canada Field Peas cheaply.

Courteen, S. G.
Delvondie, E. F.
Dickinson, Albert, Seed Co.
English, J. F., & Co.
Evans Seed Co.
Hume, John,
Portland Seed Co.
Rogers Bros.
Tewelles, L., & Co.

Pepper.

Bodger and Pedrick grow for quite a number of the larger Eastern houses. Secure quotations from all named. Contract by March 1st.

Bodger, John, & Son.
Dippe Bros.
Pedrick, Geo. R.
Vilmorin, Andrieux & Co.

Pumpkin.

Make contract by April 1st.

Burrell, D. V.
Clark, E. B., & Sons.
Comstock, Ferre & Co.
Coy, C. P., & Son.
Cummins, D.
Robinson, J. C.
Western Seed & Irrigation Co.

Radish.

European Radish is A 1; its growers are experienced and careful; all houses named in that quarter are recommended.

California seed has been giving satisfaction, and the same remarks that have been made on page 26 in regard to California Carrot will also apply to Radish.

Contract in America by March 1st; in Europe between July 1st and September 1st; get quotations in advance from all parties.

American Growers.

Agnew, H. C. & J. B.
Braslan Seed Growers Co.
Fosgate, W. J.
Haven Seed Co.

Morse, C. C., & Co.
Morrison, E. H.
Routzahn Seed Co.

European Growers.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Dippe Bros.
Houdry, Fils.
Hurst & Son.
Jensch, Gustav & Co.
Mette, Henry.
Nutting & Sons.
Peignaux & Lorain.
Roberts & Holder.
Sachs, David.
Sluis & Groot.
Spittel, Friederick.

Rape.

England is the best source of supply. Make contract between July 1st and September 1st.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Dickinson, Albert, Seed Co.
Wherry, W. R., & Co.

Salsify.

Procure in California, making contract by March 1st.

Bodger, John, & Sons.
Braslan Seed Growers Co.
Kimberlin, J. M., & Sons.

Morse, C. C., & Co.
Routzahn Seed Co.

Scorzonera.

Other European houses in the alphabetical list than the following named are also able to supply. Make contract between July 1st and September 1st.

Sluis & Groot.
Vilmorin, Andrieux & Co.

Spinach.

Owing to cheapness and reliability of seed, Europe is the main and best source of supply. In case of large orders, the following named are particularly advised. Make contract between July 1st and September 1st.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Sluis & Groot.

Squash.

Make contract by April 1st, having obtained quotations from all in advance.

Baer, Chas.
Berry, A. A., Seed Co.
Burrell, D. B.
Coy, C. P., & Son.
Ladd Seed Co.
Paxson, J. V.
Robinson, J. C.
Western Seed & Irrigation Co.

Tomato.

The Tomato grows in luxuriance in California, and in some parts, all the year round; the crop is more certain there than in the East. The Bodgers grew nearly 20,000 lbs. in 1903, mostly for the larger Eastern houses. Contract in California by March 1st; in the East by April 1st.

Bodger, John, & Sons.
Boggs, Caleb, & Son.
Haven Seed Co.
Morse, C. C., & Co.
Pedrick, Geo. R.
Wilcox. Alvin C.

Turnip.

In England, the Turnip thrives in all its effulgence and glory and seed from that source is reliable; in fact, it is an open secret that the greater portion of the Turnip seed which has been sold for years in America as American growth has come from England. It may be said that some of the larger establishments sell nothing else. The most prominent growers in England are: Carter, Cooper and Hurst.

Prices which have prevailed latterly in Europe, have ruled from 8 to 8½ cents per pound. Until America shall compete with Europe in price as well as with quality, the latter may expect to be favored with the trade for Turnip and a number of other varieties.

Two seasons are required to mature a crop of seed in Europe; contract should be placed there between July

1st and September 1st. Delivery would be made in fall or winter of the following year.

Write American firms by March 1st for quotations for new crop.

For Seven Top Turnip write Jones in this country.

American Growers.

Allen, C. L.
Anthony, H. C.
Clark, E. B., & Sons.
Comstock, Ferre & Co.
Jones, H. P.
Morrison, E. H.
Parsons, E. B.

European Growers.

Carter, Jas., Dunnett & Beale.
Cooper, Taber & Co.
Houdry, Fils.
Hurst & Son.
Peignaux & Lorain.
Roberts & Holder.
Sachs, David.
Sluis & Groot.
Vilmorin, Andrieux & Co.

Flower Seed—Miscellaneous.

The German Seedsmen have the best reputation in the world for Flower Seeds. Compare their prices for common varieties with California, and in cases where prices are about the same it is advisable to give Cali-

fornia the preference; but, it is recommended, always to buy the choicer kinds in Germany or France. There is no duty on Flower Seeds coming from Europe.

Make contract by March 1st in America; between July 1st and Sept. 1st in Europe.

Benary, Ernst.
Bodger, John, & Son.
Cooper, Taber & Co.
Dippe Bros.
Haage & Schmidt.
Morse, C. C., & Co.
Routzahn Seed Co.
Vilmorin, Andrieux & Co.

Flower Seeds.—Specialties.

California is headquarters for the entire seed trade for Sweet Peas, which have been grown there as low as 7½ cents per pound. Make contract by March 1st.

Nasturium.

Cullen, Thos.
Davy.
Dippe Bros.
Routzahn Seed Co.

Pansy.

Benary, Ernst.
Dippe Bros.
Haage & Schmidt.
Roemer, Fred.
Vilmorin, Andrieux & Co.

Sweet Peas.

Agnew, H. C. & J. B.
Bodger, John, & Sons.
Braslan Seed Growers Co.
Kimberlin, J. M., & Son.
Morse, C. C., & Co.
Rohnert, Waldo.
Routzahn Seed Co.

FIRST CLASS SOURCES FOR ALFALFA, BLUE GRASS, RYE AND FESCUE GRASSES, SUNFLOWER, VETCHES, WHITE CLOVER, BULBS, ILLUSTRATED SEED BAGS, ETC., ETC.

Alfalfa.

Beatty Mercantile Co.
Blackman & Griffin.
McNeen, James.
Smurthwaite, C. A., Produce Co.

Berseem or Egyptian Clover.

Vilmorin, Andrieux & Co.

Blue Grass.

Dickinson, Albert, Seed Co.
McCullough, J. M., Sons.
Peppard, J. G.
Spears, E. F., Sons.
Taylor, G. M.

Dealers in Electros, Vegetables and Flowers, for Catalogue Illustration.

Blanc, A., Oak Lane, Philadelphia, Pa.
Bryant, J. M., 706 Chestnut St., Philadelphia, Pa.
McFarland, J. Horace, Co., Harrisburg, Pa.
Vilmorin, Andrieux & Co.

Manufacturers of Seed Bags—Illustrated and Plain.

Cincinnati Bag Co.
Clark Bros.
Finch, F.
Gair, Robert.
Glecner & Faust.
Karle Lithographing Co.
Niagara Lithographing Co.
Spangler, E. J., & Co.
Stecher Lithographing Co.
Vredenburg & Co.
Wall, H. M., Litho. Co.
Young, Willis G.

Rye and Fescue Grasses.

Allen, R., & Son.
Busquers, Wm. E., & Co.
Nunguesser, Henry.

Sunflower.

Connell, H. H.
Courteen, S. G.
Dickinson, Albert, Seed Co.
Tewelles, L., & Co.

Tobacco.

First of the following named grows general line of seed of all the American varieties.

Sagarniroya is recommended for pure Cuba or Havana Tobacco seed.

Ragland, R. L.
Sagarniroya, Jose.

Vetches.

Vetches are being grown extensively and cheaply in Oregon.

Any of the English Houses in Europe.
Portland Seed Co.

White Clover.

Courteen, S. G.
Dickinson, Albert, Seed Co.
McCullough's, J. M., Sons.
Tewelles, L., & Co.
Whitney, Eckstein & Co.

Sundries.

Andrews, D. M., Boulder, Col.; Rare seeds.
Barr & Sons, 11–13 King St., Covent Garden, London, Eng.; Sundries.
Box, John R., West Wickham, Kent, Eng.; Begonias.
Bull, Wm., & Sons, King's Road, Chelsea, London, S. W., Eng.; Sundries.
Burbank, Luther, Santa Rosa, Cal.; Shasta Daisy.
California Carnation Co., Loomis, Cal.; Calla Bulbs.
Carter, C. J., & Son, Wallace, N. C.; Caladiums, Tuberose Bulbs.
Cowee, Arthur, Berlin, N. Y.; Gladiolus Specialist.
Croom, J. F., & Bro., Magnolia, N. C.; Tuberose Bulbs.
Cushman Gladiolus Co., Sylvania, O.
Degraff Bros., Leiden, Holland; Hyacinths, Tulips, Bulbs, etc.
Egger, Geo., Jaffa, Palestine; Bulbs.

Eldering, W. J., & Son, Overveen, Harlem, Holland; Hyacinths, etc.

Frith, Chas. A. V., Hamilton, Bermuda; Lilium Harrissi Bulbs.

Furrow Bros., Guthrie, Okla., Canna Bulbs.

Germain Seed Co., Los Angeles, Cal.; Calla, Freesia Bulbs.

Griffing Bros. Co., Jacksonville, Fla.; Canna Bulbs.

Grim, E. A., & Co., Hamburg, Germany; Sundries.

Groves, J. H., & Son, Magnolia, N. C.; Tuberose Bulbs.

Grullemans, J. J., & Son, Lisse, Holland; Hyacinths, etc., Bulbs.

Harrison & Son, Leicester, Eng.; Sundries.

Hasslach & Roumanville, St. Remy de Provence, France; Sundries.

Heineman, F. C., Erfurt, Germany; Sundries.

Herb, M., Naples, Italy; Sundries.

Hillebrand, Uberto, Pallanza, Italy; Sundries.

Hubert & Co., Guernsey, Channel Is., Eng.; Daffodil Bulbs.

Johnson, W. W., & Sons, limited, Boston, Eng.; Sundries.

Kennell, John Fay, Box 405, Rochester, N. Y.; Gladiolus Bulbs.

Lecoq, A., & Co., Darmstadt, Germany; Grasses, Forest Tree Seeds.

Little & Ballantyne, Carlisle, Eng.; Sundries.

Loomis Floral Co., Loomis, Cal.; Shasta Daisy Seed.

Newbury, H. E. Co., Magnolia, N. C.; Tuberose Bulbs.

Orcutt Seed & Plant Co., San Diego, Cal.; Bulbs.
Pape & Bernmann, Quedlinburg, Germany; Sundries.
Peacock, W. P., Atco, N. J.; Dahlia Roots.
Rees & Gompere, R. F. D. No. 1, Long Beach, Cal.; Bulbs.
Speelman, C. J., Sons, Sassenheim, Holland; Hyacinths, Etc., Bulbs.
Stallknecht & Meyer, Copenhagen, Denmark; Sundries.
Stanley, Ashton & Co., South Gate, London, N., Eng.; Sundries.
Surrey Seed Co., Ltd., Red Hill, Eng., Sundries.
Sutton & Sons, Reading, Eng.; Sundries.
Suzuki & Iida, 31 Barclay St., New York; Japanese Seeds and Bulbs.
The General Bulb Co., Vogelenzung, Holland; Hyacinths, Etc.
The Munson & Co., New Haven, Conn.; Sundries.
Van Waveren, L. & Co., Hillegom, Holland; Hyacinth, Tulip Bulbs.
Watkins, S. L., Fair Oaks, Cal.; Bulbs.
Watkins, W. G., Placerville, Cal.; Bulbs.
Watkins & Simpson, 12 Tavistock St., Covent Garden, London, Eng.; Sundries.
West, Geo. W., Shelly Bay, Bermuda; Lilium Harrissi Bulbs.
Wright, W. G., San Bernardino, Cal.; California Native Seeds.
Zippe, H., & Co., Lisse, Holland; Bulbs.

VITALITY OF SEEDS.

The natural law seems to be that all seeds retain their vitality for, at least, two or three years. The safer plan for the dealer, however, with seeds carried over from one season to another, is to follow the rule of the best conducted Seed Houses, that is, to test all such stocks at a set period, just before the next selling season, taking care to preserve for reference, a proper record of same. In truth, the best course is to test all seeds as soon as received in store, from whatever source, so as to confirm their vitality.

In the majority of cases, fresh seeds give the best results, that is when it is desired to produce plants with a strong leaf growth. Naturally, plants from perfectly fresh seeds, possess greater vigor, but for plants that it is desired should head, fruit or bulb well, like Cabbage, Lettuce, Cucumber, Melon, Pumpkin, Beet, Carrot, Radish, and Turnip, it is preferable to use seeds two or three years old. This applies as well to flowers; seeds two years old tend to produce more double flowers than fresh seeds.

GROWERS' PRICES.

The following list of Seed Growers' contract prices is presented for the purpose of showing the average prices which have prevailed among Growers during the past several years. They are not in all cases the minimum prices which were given for extremely large orders, but are the actual figures at which contracts were made for moderate orders for seeds of the best quality. At date of publication, complete data for crop 1903 is the latest at hand, but it may be confidently stated that the same prices have ruled again generally for crop 1904, the notable exceptions being Beans and Peas, contract prices of which for 1904 being a trifle lower than they were in 1903.

(Inclusive of duties, in case of importation.)

	Per Pound.
Asparagus	$0.10
Beet. Egyptian, Eclipse, Blood Turnip, Long Blood, etc.	.13
Sugar, different varieties	.05¼
Mangel Wurtzel, Mammoth Long Red	.05
Mangel Wurtzel, Golden Globe	.05¾
Mangel Wurtzel, Red Globe	.06¾
Mangel Wurtzel, Golden Tankard	.06
Brussels Sprouts	.45
Cabbage. Etampes, Early Spring, Early and Large York, Ulm Savoy, Early Flat Dutch, Early Winnigstadt, Early Drumhead, Summer Flat Head	.40

Per Pound.

Select Early Jersey Wakefield, Charleston Wakefield. .40 to .50

All Head, All Seasons, Succession, Autumn King, Danish Ball Head, Green Glazed, Surehead, Premium Large Late Flat Dutch, Large Late Drumhead, Drumhead Savoy, Red Dutch, etc. .40 to .45

Carrot. Oxhart, Early Horn, Danvers, Long Orange, etc .16 to .20

White Belgian .12 to .14

Cauliflower. Extra Early Snow Ball 13.00

Selected Extra Early Erfurt 11.00

Extra Early Paris 2.25

Large Algiers 2.50

Autumn Giant 1.00

Celery. Giant White and Dwarf White .25

Henderson White Plume .35 to .40

Half Dwarf, Golden Heart, Giant Pascal .25 to .30

Golden Self-Blanching, best French .70

Golden Self-Blanching, best American .55

Collards. Best Georgia .25 to .28

Corn Salad .16

Cress. Curled .06½

Plain .06½

Cucumber. Different varieties .20

Egg Plant. Improved New York Purple (Spineless). $1.00 to 1.25

Kale. Dwarf German Greens, Tall Curled Scotch .25

Kohl Rabi. White Vienna .52

Purple Vienna .70

Leek. London Summer .25

Large Musselburgh .35

Lettuce. All different varieties .16 to .18

Melon, Musk. All different varieties .20 to .22

	Per Pound.
Melon, Water. All different varieties	.12
Mustard. Black and White	.05
Giant Southern Curled	13 to .15
Okra. All different varieties	.10
Onion. Italian Queen	.65
Bloomsdale Pearl, genuine	.65
White Portugal, Southport White Globe	.65
Yellow Flat Danvers, Yellow Strasburg	.35
Yellow Globe Danvers, Large Red Wethersfield	.40
Red and White Bermuda	1.25
Onion Sets. Bloomsdale Pearl	.06
Parsley. Plain	.10
Finest Double Curled, Moss Curled	.13
Parsnip. Improved Hollow Crown	.08½
Round	.09
Pepper. Sweet Spanish, Bull Nose	.50
Ruby King	.60
Radish. All different varieties	10½ to .12
Salsify. Mammoth Sandwich Island	26 to .30
Spinach. All different varieties	05 to .06
Squash. Early Bush, Summer Crookneck	.17
Hubbard, Boston Marrow	.25
Tomato. Stone, Beauty, Acme, Perfection, Atlantic Prize, etc.	.50
Dwarf Champion	.70
Spark's Earliana	.75
Turnip. Red Top Strap-leaved, Flat and Globe, Early Flat Dutch, White Globe, White Egg, Yellow Aberdeen	.11
Improved Purple Top Yellow Rutabaga	.10½

	Per Bushel.
Beans. Dwarf Snaps, Green Pod, Red Valentine, etc.	$2.25 to $2.50
Dwarf Snaps, Wax Pods, Golden Wax, etc.	2.60 to 3.00
Bush Lima; Burpee, Henderson	2.40
Bush Lima, Dreer's	2.50
Pole; Kentucky Wonder, Creaseback, Southern Prolific, Large White Lima	2.00
Carolina or Sewee	2.40
Corn, Sweet. Early Minnesota, Black Mexican	1.15
Cory, Crosby	1.15
Stowell's Evergreen	1.00
Country Gentleman	1.30
Extra Early Adams	.90
Corn, Field. Golden Beauty, Hickory King, Chester Co., Mammoth, Leaming, etc.	.50
Peas. Extra Early sorts, Anybody's, with or without seal	2.50 to 3.00
Little Gem, American Wonder, Everbearing, Champion, etc.	1.50 to 4.00

Flower Seeds.

Prices in California.	Per Pound.
Asters. Giant Comet, separate colors	$3.50
Branching, separate colors	3.00
Balsam. Separate colors	2.00
Calendula. Separate colors	.30
Centaurea Cyanus	.35
Cosmos. Giant, separate colors	.50
Delphinium (Larkspur)	.40
Eschscholtzia. The Golden West	.75
Hollyhock. Allegheny, extra select	4.00
Marigold. Eldorado	.75

		Per Pound.
Mignonette.	(Reseda odorata)	.18
Nasturtium.	Dwarf Tom Thumb, separate colors	.30
	Tall, separate colors, Lobbianum	.28
Pansy.	Different sorts	$4.00 to 6.00
Petunia.	Striped and blotched	8.00
		Per Ounce.
	Ruffled Giants	$8.00
		Per Pound.
Phlox Drummondii.	Nana Compacta	$7.00
Poppy.	Double White, Cardinal	.50
	Shirley, Tulip	.75
Stocks.	Ten Weeks	3.00
Sunflower.	Chrysanthemum Flowered	.35
Sweet Peas.	Best named kinds	.8 to .10
Verbena Hybrida		5.00
Zinnia.	Curled and Crested	1.50

LIST OF SYNONYMS OF FAMILIARLY KNOWN VARIETIES OF VEGETABLES, ESTABLISHED FROM EXPERIMENTS AND INVESTIGATIONS MADE IN TRIAL GROUNDS.

Generic Name.	Recognized Specific Name.	Synonyms.
Asparagus	Conover's Colossal.	Barr's Mammoth.
	" "	Conover's Giant.
	" "	California Mammoth.
	" "	Donald's Elmira.
	" "	Giant Argenteuil.
Beans, Bush	Brown Valentine.	Refugee.
	" "	Thousand to One.
	Brown Six Weeks.	Early Mohawk.
	" "	Mohawk.
	American Extra Early Green Pod.	Ne Plus Ultra.
	Davis Wax.	Ventura Wonder.
	Dwarf German Black Wax.	Butter Wax.
	" "	Cylinder Pod.
	Crystal White Wax.	Ancient American.
	" "	Cabbage Wax.
	Detroit Wax.	Maule's Butter Wax.
	Dwarf Horticultural.	Dwarf Cherry.
	" "	Dwarf Cranberry.
	" "	Dwarf Marblehead.
	" "	Dwarf Wren's Egg.
	" "	Quail Head.

Generic Name.	Recognized Specific Name.	Synonyms.
Beans, Bush, *Con.*	Dwarf Horticultural.	Scipio Dwarf.
	" "	Speckled Cranberry.
	Emperor William.	Dwarf Dutch Case Knife.
	" "	First in Market.
	" "	Low's Champion.
	" "	White Scimeter.
	Ferry's Challenger Black Wax.	Thorburn's Butter Wax.
	Goddard's Improved Dwarf Horticultural.	Boston Favorite.
	" "	Improved Yellow Eye.
	" "	Red Podded Dwarf Horticultural.
	Golden Wax.	Perfection Wax.
	" "	Rust-Proof Golden Wax.
	Golden Wax, long, round, sickle shape.	Bismarck.
	Green Flageolet.	Wonder of France.
	Mexican Tree.	Cala.
	" "	California Tree.
	" "	Prolific Tree.
	" "	Vineless Marrow.
	Red Flageolet Wax.	Crimson Flageolet Wax.
	" "	Landreths' Scarlet Wax.
	Red Kidney.	Chilian.
	Red Valentine.	Extra Early Red Valentine.
	" "	Extra Early Round Pod Valentine.
	" "	Red Marrow.
	Triumph of France.	Paris Canner.
	White Kidney.	Improved Royal Dwarf.
	" "	Royal Dwarf.

Generic Name.	Recognized Specific Name.	Synonyms.
Beans, Bush, *Con.*	White Kidney.	Large White Kidney.
	" "	Stanton.
	White Marrow.	Large White Dwarf Cranberry.
	" "	Mountain.
	" "	Succotash.
	" "	Large White Marrow.
	White Navy.	Boston Pea.
	"	Early Marrow.
	"	Improved Navy.
	"	Snowflake.
	Yellow Six Weeks, long.	Newtown.
	" "	Rob Roy.
	Yellow Six Weeks, round.	Yellow Cranberry.
	Burpee's Bush Lima.	Dwarf Large White Lima.
	Dwarf Small White Lima.	Henderson's Bush Lima.
	" "	Dwarf Carolina.
	" "	Dwarf Sieva.
	" "	Jackson Wonder.
	Kumerle Dwarf Lima.	Dreer's Bush Lima.
	" "	Dwarf Potato Lima.
	" "	Thorburn's Bush Lima.
Beans, Pole	Creaseback.	Fat Horse.
	"	Lazy Wife.
	"	Mobile.
	Golden Butter Pole.	Golden Cluster Wax.
	" "	Mont d' Or Wax.
	Horticultural Pole.	Housewives' Delight.
	" "	Red-Speckled Cranberry.
	" "	Scipio Pole.

Generic Name.	Recognized Specific Name.	Synonyms.
Beans, Pole, *Con.*	Horticultural Pole.	Wren's Egg.
	Kentucky Wonder.	Monstrous Podded Southern Prolific.
	" "	Old Homestead.
	" "	Seek No Further.
	" "	Texas Prolific.
	" "	Wood's Improved Southern Prolific.
	Mammoth Podded Horticultural.	Hampden.
	" "	King Horticultural.
	" "	Mugwump.
	" "	Worcester.
	Large White Lima.	Butter.
	" "	Early Jersey Lima.
	" "	King of the Garden.
	" "	Jersey Lima.
	Improved White Lima.	Challenger.
	" "	Dreer's Improved Lima.
	" "	Potato Lima.
	Small White Lima.	Carolina.
	" "	Sewee.
	" "	Sieva.
	Tall German Black Wax.	Black Algerian Wax.
	" "	Black Butter Pole.
	" "	Indian Chief,
	Yard Long.	Asparagus.
	"	Cuban Asparagus.
	"	French Asparagus.
	"	Snake.
	Red Speckled Cut Short.	Corn Field.
	" "	Corn Hill.

Generic Name.	Recognized Specific Name.	Synonyms.
Beet—Table Sorts	Bassano.	Extra Early Turnip.
	Bastian's Turnip.	Philadelphia Early Turnip.
	" "	Simon's.
	Dark Blood Turnip.	Acme.
	" "	Arlington Favorite.
	" "	Early Columbia.
	" "	Dewing's.
	" "	Edmund's.
	" "	Market Gardeners'.
	" "	New Crimson Chief.
	Eclipse.	Columbia.
	"	Detroit Dark Red.
	Egyptian.	Crosby.
	"	Excelsior.
	"	Extra Early Turin.
	Lentz.	Improved Arlington.
	"	Dark Stinson.
	"	Electric.
	"	Landreths' Early Forcing.
	"	New Surprise.
	Long Blood.	Ne Plus Ultra.
	Swiss Chard.	Silver Beet.
	"	Spanish Spinach.
Beet—Field Sorts	Champion Yellow Intermediate Mangold Wurtzel.	Gate Post.
	Giant Long Red Mangold Wurtzel.	Colossal Monarch.
	" "	Jumbo.
	" "	Prize Mammoth.
	" "	Norbiton Giant.

Generic Name,	Recognized Specific Name.	Synonyms.
Beet—Field Sorts, *Con.*	Giant Long Red Mangold Wurtzel.	Saw Log.
	Red Top Sugar.	Danish Sugar.
	White Silesian.	White French.
Brussels Sprouts	Dwarf.	Miniature Cabbage.
	"	Perfection.
	French.	Roseberry.
Cabbage	Autumn King.	World Beater.
	Danish Ball Head.	Amager.
	" "	Base Ball.
	" "	Cannon Ball.
	" "	Hollander.
	" "	Solid Emperor.
	Early Spring.	Flat Parisian.
	Early Winnigstadt.	Early Cone.
	" "	Quedlinburg Winnigstadt.
	Early Dwarf Flat Dutch.	All Seasons.
	" "	All Year Round.
	" "	Early All Head.
	" "	Early Southern Cross.
	" "	Long Island Medium Flat Dutch.
	Etampes.	Advance.
	"	Express.
	"	Lightning.
	"	Henderson's Premium.
	"	Wonderful.
	Filderkraut.	Pomeranian Pointed Head.
	Fottler's Brunswick.	Fottler's Early Drumhead.
	" "	Gregory's Early Drumhead.

Generic Name.	Recognized Specific Name.	Synonyms.
Cabbage, *Con*.....	Fottler's Brunswick.	Large White Brunswick.
	" "	Short Stem.
	Henderson's Early Summer.	New York Early Summer.
	Large Jersey Wakefield.	Charleston Wakefield.
	" "	Large-Headed Wakefield.
	" "	Large Wakefield.
	Large Late Flat Dutch.	Bloomsdale Large Late Flat Dutch.
	" "	Danish Large Late Flat Dutch.
	" "	Excelsior Large Late Flat Dutch.
	" "	Market Gardeners' Large Late Flat Dutch.
	" "	Matchless Large Late Flat Dutch.
	" "	Premium Large Late Flat Dutch.
	" "	Silver Leaf Large Late Flat Dutch.
	" "	Superb Large Late Flat Dutch.
	" "	Chicago Market Garden.
	" "	Large Late Drumhead.
	" "	Late All Head.
	" "	Surehead.
	Louisville Early Drumhead.	Eclipse.
	" "	Ferry Deep-Head.

Generic Name.	Recognized Specific Name.	Synonyms.
Cabbage, *Con*.....	Louisville Early Drumhead.	Florida Header.
	" "	New Hard Heading.
	" "	Reedland Early Drumhead.
	Red Dutch.	Early Dark-Red Erfurt.
	"	Red Rock.
	St. Dennis.	Chou Bonneuil.
	"	Eclipse.
	"	Imported Early Flat Dutch.
	"	Solid South.
	St. John's Day.	Landreths' Early Summer Flat Head.
	Select Jersey Wakefield.	Little Pixie.
	Stone Mason.	Buncombe.
	"	Hard Heading.
	"	Large Bergen.
	"	Large Late Mountain.
	Vandergaw's Early Drumhead.	Bloomsdale Early Drumhead.
	" "	Succession.
Carrot.....	French Earliest Short Horn.	Early Round Parisian.
	" "	Extra Early French Forcing.
	" "	Golden Ball.
	Half Long Scarlet Stump-Rooted.	Chantenay.
	Long Orange.	Altringham.
	"	Henderson's Intermediate.
	"	Long Red Surrey.

Generic Name.	Recognized Specific Name.	Synonyms.
Carrot, *Con*	Long Orange.	Victoria.
	Orange Danvers.	Rubicon Half Long.
	Oxheart.	Early Gem.
	"	Guerande.
	Scarlet Horn Blunt-Rooted.	Bellot.
	White Vosges.	White Giant.
Cauliflower	Dwarf Earliest Erfurt.	Dwarf Earliest.
	" "	First.
	Early Paris.	Nonpareil.
	Early Snow Ball.	Very Dwarf, Small Leaved.
	" "	Henderson's Early Snow Ball.
	Algiers.	Landreths' Reliable.
Celery	Dwarf White Solid.	Kalamazoo.
	Giant Pascal.	Winter King.
	Golden Heart.	Crawford's Half Dwarf.
	"	Golden Dwarf, Self-Blanching.
	"	Henderson's Half Dwarf.
	Paris Golden Self-Blanching.	Golden Self-Blanching.
	White Plume.	Self-Blanching.
Chicory	Common or Long-Rooted.	Barbe de Capuchin.
Collards	Georgia.	Cabbage.
	"	Creole.
	"	Improved White Georgia.
	"	Silver.
	"	Southern Curled.
Corn—Table Sorts	Asylum.	Early Mammoth.

Generic Name.	Recognized Specific Name.	Synonyms.
Corn—Table		
Sorts, *Con.*	Asylum.	Darling's.
	"	Triumph.
	Ballard's Extra Early.	Dolly Dutton.
	" "	Tom Thumb.
	Black Mexican.	Squaw.
	Concord.	Honey.
	Country Gentleman.	Little Gem.
	" "	Ne Plus Ultra.
	" "	Quaker Sweet.
	" "	Shoe Peg.
	Crosby.	Boston Market.
	Early Adams.	Burlington.
	Early 8-rowed.	New England.
	Egyptian.	Washington Market.
	Golden Sugar.	Brighton.
	" "	Early Orange.
	" "	Golden Coin.
	" "	Golden Sweet.
	Imitation Sugar.	First in Market.
	" "	Landreths' Early Market.
	" "	Southern Roasting Ear.
	Narragansett.	Marblehead.
	Old Colony.	Excelsior. Landreths' Sugar. Squantum.
	Perry's Hybrid.	Chicago Market.
	Red Cory.	First of All.
	Tuscarora.	Brazilian Flour.
Corn—Field		
Sorts	Blunt's Prolific.	Mammoth Ensilage.
	Early Red Blazed.	Smut Nose.
	Early Yellow Canada.	Early Yellow Flint.
	" "	Vermont Eight-rowed Yellow.

Generic Name.	Recognized Specific Name.	Synonyms.
Corn—Field Sorts, *Con.*	Extra Early Long Bristol.	Landreths' Southern Prolific.
	Golden Dent.	Early Golden Dent.
	" "	Pride of the North.
	" "	Queen of the Prairie.
	" "	Yellow Dent.
	Large White Flint.	Old Hominy.
	Maryland White Gourd.	Southern Snowflake.
	Northwestern Dent.	Bloody Butcher.
	Sheep Tooth.	Southern Fodder.
	White's Surprise.	Extra Early Pearl.
Corn—Pop	Pearl.	Silver Lace.
	"	Small White Bow.
	White Rice.	Egyptian.
	" "	Monarch.
	" "	Rat Tooth.
	" "	Snow Ball.
Cress	Curled.	Pepper Grass.
	Gray Seeded Early Winter.	American.
	" "	Land.
	" "	Upland.
	Golden Yellow.	Australian.
Cucumber	Early Frame.	Early Cluster.
	" "	Livingston's Evergreen.
	" "	Short Green.
	" "	Wethersfield Chicago Pickle.
	Early Russian.	Extra Early Seedling.
	" "	Extra Early Siberian.
	" "	Everbearing.
	" "	New Siberian.
	Failby's Hybrid.	Extra Long White Spine.
	" "	Fordhook Famous.

Generic Name.	Recognized Specific Name.	Synonyms.
Cucumber, *Con.*	Failby's Hybrid.	New Orleans Market Spine.
	Gherkin.	Burr.
	"	Round Prickly.
	"	West India.
	Nichols' Medium Green.	California Pickle.
	Short Prolific.	Boston Market.
	" "	Boston Pickling.
	" "	Chicago Pickling.
	" "	Early Green Prolific.
	" "	Extra Early Green Prolific.
	" "	Jersey Pickle.
	" "	Prize Taker.
	Sooly Qua.	Chinese Snake.
	Telegraph.	Astro.
	"	English Frame.
	White Parisian.	Japan White.
	" "	White India.
	" "	White Pearl.
	White Spine.	Arlington White Spine.
	" "	Bennet's White Spine.
	" "	Buist's Perfection White Spine.
	" "	Early White Spine.
	" "	Evergreen White Spine.
	" "	Fordhook White Spine.
	" "	Improved White Spine.
	" "	Peerless White Spine.
	" "	Bismarck.
	" "	Thorburn's Commercial Pickle.
Dandelion	Common French.	Cultivated.
	Cabbaging.	Improved Thick-leaved.

Generic Name.	Recognized Specific Name.	Synonyms.
Egg Plant	Large Spineless Purple.	New Jersey.
	" "	New Orleans Market.
	" "	New York Purple.
	Madras-striped.	Guadalupe.
Endive	Broad-leaved.	Batavian.
	"	Escarolle.
	"	Lettuce-leaved.
	Green Curled.	Winter.
	White Curled.	Moss Curled.
Kale	Asparagus.	New Orleans Broad-leaf.
	Dwarf German.	Cottagers.
	" "	Dwarf Curled Scotch.
	" "	German Greens.
	" "	Siberian.
	" "	Sprouts.
	" "	Winter.
	Dwarf German Purple.	Dwarf Brown Curled.
	Extra Dwarf Light Green Curled Scotch.	Bloomsdale. Mosbach. Norfolk.
	Jersey.	Cow or Tree.
	Waite's Dwarf Heading.	Rosette.
Kohl Rabi	Early Green Vienna.	Early White Vienna.
	Green.	Large Green.
	"	Large White.
	"	White.
Leek	Large London.	Flag.
	Large Musselburgh.	Carentan.
	" "	Scotch Champion.
	Large Rouen.	American.
Lettuce	American Gathering.	Onondaga.
	" "	Perpetual.
	" "	Prize Head.
	Brown Dutch.	Brown Ginco Cabbage.
	Bronzed Curled.	Brown Chartiers.

Generic Name.	Recognized Specific Name.	Synonyms.
Lettuce, *Con.*	California Cream Butter.	Beckert's Golden.
	" "	Blonde Beauty.
	" "	Philadelphia Butter.
	" "	Spotted Passion.
	Curled Silesia.	Curled Simpson.
	" "	Perpetual.
	Golden Curled.	White Chartiers.
	Green Cos.	Long Loaf.
	" "	New Trianon Cos or Celery.
	" "	Romaine.
	" "	Self Closing Cos.
	Hammersmith.	Hardy Green Winter.
	Hanson.	Curled India.
	"	Iceberg.
	"	Marblehead Mammoth.
	Largest of All.	Deacon.
	" "	Norfolk Royal Cabbage.
	Perpignan, Yellow Seed.	Creole.
	" " "	Hubbard Market.
	" " "	Landreths' Early Summer.
	" " "	Perfected Salamander.
	" " "	Reliable.
	" " "	Salamander.
	" " "	St. Louis Market.
	" " "	Stubborn Header.
	" " "	Thick Head Yellow.
	" " "	Waite's Summer Cabbage.
	" " "	Wood's Cabbage.
	Tennisball, White Seed.	All Year Round.
	" "	Boston Market.
	Trocadero.	Big Boston.

Generic Name.	Recognized Specific Name.	Synonyms.
Lettuce, *Con.*	Trocadero.	Red Edged.
	Turkish Butter.	Black Seeded Satisfaction.
	"	Bloomsdale Butter.
	Wheeler's Tom Thumb.	Landreths' Forcing.
Melon—Musk	Acme.	Anne Arundel.
	"	Atlantic City.
	"	Baltimore.
	"	Baltimore Market.
	Cosmopolitan.	Cannon Ball.
	Delmonico.	Princess.
	Early Hackensack.	Turk's Cap.
	Extra Early Hackensack.	Arlington.
	" "	Champion.
	" "	Chicago Market.
	" "	Early Cape May.
	" "	Livingston's Market.
	" "	Superb.
	Green Persian.	Casaba.
	" "	Giant of Colorado.
	Large Jenny Lind.	Extra Early June.
	" "	Jersey Belle.
	Long Island Beauty.	California Beauty.
	Mango.	Vegetable Peach.
	"	Vine Orange.
	"	Vine Peach.
	Montreal.	Outremont Beauty.
	Netted Gem.	Alamo.
	" "	Colorado.
	" "	Dewey Gem.
	" "	Golden Gem.
	" "	Golden Jenny.
	" "	Rocky Ford.
	Nutmeg.	Green Citron.

Generic Name.	Recognized Specific Name.	Synonyms.
Melon-Musk, *Con.*	Nutmeg.	Netted Pine Apple.
	Paul Rose.	Petoskey.
	San Joaquin.	California Citron.
	Salmon and Green.	Miller's Cream.
	" "	Red-Fleshed Osage.
	White Japan.	Surprise.
	Winter Casaba.	Santa Claus.
	" "	Winter Pine Apple.
Melon—Water ..	Arkansas Traveller.	Santiago.
	Blue Gem.	Georgia Blue.
	"	Gloussier.
	Duke Jones.	Jumbo.
	Florida Favorite.	Sibley's Triumph.
	" "	Volga.
	" "	White Gem.
	Georgia Rattlesnake.	Gypsey.
	" "	Jackson.
	" "	Striped Gypsey.
	Iron Clad.	Delaware.
	Jordan's Grey Monarch.	Landreths' Long Light Icing.
	Kleckly Sweet.	Monte Cristo.
	Kolb's Gem.	American Champion.
	McIver's Sugar.	Wonderful.
	Mountain Sweet.	Shippers' Favorite.
	Odella.	California.
	Peerless.	Ice Cream.
	Phinney's Early.	Landreths' Extra Early.
	Round Dark Icing.	Early Fordhook.
	Round Light Icing.	Ice Rind.
Mustard	Brown.	Black.
	Giant Southern Curled.	Chinese.
	" "	Creole Curled.
	" "	Georgia.
	Large Leaved.	Bloomsdale Large Leaved.

Generic Name.	Recognized Specific Name.	Synonyms.
Mustard, *Con.*	Large Leaved.	Golden.
	Yellow.	White.
Okra	White Velvet.	Creole.
	"	Lady Finger.
	"	New South.
	"	White Velvet.
	Tall.	Long.
	Dwarf Green.	Density.
	"	Dwarf Prolific.
	Green.	White.
Onion	Australian Brown.	Brown Beauty.
	Creole.	Louisiana.
	French Early White Queen.	Extra Early Bloomsdale Pearl.
	" "	Nocera.
	" "	Silver White Etna.
	" "	White Pearl.
	Italian Early White Queen.	Early Radish.
	" "	Extra Early Barletta.
	" "	New Adriatic.
	Large White Flat Tripoli.	El Paso.
	" "	Mexican.
	" "	San Pedro.
	" "	Silver King.
	" "	White Garganus.
	Paris Silver Skin.	Autumn White Wax.
	" "	Crystal Wax.
	Prize Taker.	Mammoth Yellow Prize Taker.
	"	Spanish Globe.
	"	Spanish King.
	Red Cracker.	Red Seal.
	Red Southport Globe.	Red Rocca.

Generic Name.	Recognized Specific Name.	Synonyms.
Onion, *Con*	Red Tripoli.	Copper King.
	"	Red Garganus.
	"	Red Pompeii.
	White Bermuda.	Canary Island.
	White Portugal.	Bloomsdale White.
	"	New England White.
	"	Philadelphia White.
	"	Silver Skin.
	White Southport Globe.	Silver Ball.
	" "	White Rocca.
	Yellow Cracker.	Golden Seal.
	Yellow Globe Danvers.	Long Keeper.
	Yellow Southport Globe.	Yellow Rocca.
	Yellow Strasburg.	Yellow Dutch.
Parsley	Double Curled.	Curled.
	" "	Fine Curled.
	" "	Extra Curled.
	Emerald Gem.	Beauty.
	" "	Beauty of the Parterre.
	" "	Emerald.
	Hamburg.	German.
	"	Turnip-rooted.
	Moss Curled.	Champion.
	"	Covent Garden Garnishing.
	"	Fern-leaved.
	"	Myatt's Garnishing.
	"	Triple Curled.
	Plain.	Common.
	"	Single.
Parsnip	Elcombe Giant.	Bloomsdale.
	" "	Devonshire.
	Hollow Crowned.	Cup.
	" "	Guernsey.

Generic Name.	Recognized Specific Name.	Synonyms.
Parsnip, *Con*.....	Hollow Crowned.	Long Smooth.
	" "	Long White.
	" "	Student.
	" "	Sugar.
Peas.....	Advancer.	Horsford's Market Garden.
	Alaska.	Earliest of All.
	"	Kentish Invicta.
	"	Laxton's Earliest.
	"	Sitka.
	Auvergne.	French Canner.
	"	Petit Pois.
	"	Small Early French.
	Blue Beauty.	Perfection.
	Blue Peter.	Blue Tom Thumb.
	Carter's Daisy.	Daisy.
	" "	Dwarf Telephone.
	Daniel O'Rourke, Improved.	Canada Extra Early.
	" "	Dexter.
	" "	Eureka.
	" "	Family Garden.
	" "	First and Best.
	" "	Hancock Extra Early.
	" "	Landreths' Extra Early.
	" "	Maud S.
	" "	Morning Star.
	" "	Philadelphia Extra Early.
	" "	Premier Extra Early.
	" "	Rural New Yorker.
	" "	Summit.
	" "	Sutton's Ring Leader.
	Daniel O'Rourke, Ordinary.	Early Frame.

Generic Name.	Recognized Specific Name.	Synonyms.
Peas, *Con*	Daniel O'Rourke, Ordinary.	Early Kent.
	" "	Early June.
	" "	Early May.
	" "	Early Washington.
	Duke of Albany.	American Champion.
	Dwarf White Sugar.	Dwarf Brittany.
	Gradus.	Early Giant.
	"	Prosperity.
	Little Gem.	Premium Gem.
	Pride of the Market.	Golden Sugar.
	Prince of Wales.	Alliance.
	" "	Eugenie.
	Stratagem.	Sharp's Queen.
	"	Victory.
	Surprise.	Eclipse.
	Telegraph.	Giant Podded Marrowfat.
	"	Improved Long Island Marrowfat.
	Telephone.	Victoria.
	Tom Thumb.	Earliest Dwarf.
	"	Strawberry.
	White Canada Field.	Niles.
	White Marrowfat.	Dwarf White Marrowfat.
	Yorkshire Hero.	Alameda Sweet.
	"	Big Gem.
	"	Dwarf Champion.
	"	Everbearing.
Pepper	Cherry.	Bird's Eye.
	"	Creole.
	Golden Bell.	Golden Dawn.
	"	Golden Queen.
	Large Sweet Spanish.	Bull Nose.

Generic Name.	Recognized Specific Name.	Synonyms.
Pepper, *Con.*	Large Sweet Spanish.	Large Bell.
	" "	Large Sweet Mountain.
	Long Red Cayenne.	Cayenne.
	" "	New Cardinal.
	Chinese Giant.	Procopp's Giant.
	Small Chili Red.	Small Oxheart.
	Small French Cayenne.	Coral Gem.
	Squash.	Tomato.
Pumpkin	Black Sugar.	Nantucket Pie.
	"	Negro.
	Cashaw.	Yellow Crookneck.
	Connecticut Field.	Yankee Cow.
	Large Common Field.	Big Tom.
	Mammoth Tours.	Big Show.
	"	Jumbo.
	"	King of Mammoths.
	"	Mammoth Fifty Dollars.
	Small Sugar.	New England Pie.
	"	Yankee Pie.
Radish	Bullock's Blood.	Landreths' Earliest.
	"	Garnet.
	Chinese Rose, Winter.	Scarlet China.
	" "	Scarlet Winter.
	Chinese Stump-rooted.	All Seasons.
	" "	Celestial.
	Dresden.	Grey Summer.
	Deep Scarlet Turnip.	Cherry.
	" "	Ne Plus Ultra.
	" "	Red Turnip.
	" "	Scarlet Button.
	Earliest Scarlet Erfurt.	Early Bird.
	" "	Fire Ball.
	Half Long Deep Scarlet.	Paris Beauty.

Generic Name.	Recognized Specific Name.	Synonyms.
Radish, *Con.....*	Large California White Winter.	Mammoth White Russian.
	Long Scarlet Short Top.	Covent Garden.
	" "	Salmon.
	Long White Strasburg.	Hospital.
	" "	Nonpareil.
	" "	Sandwich.
	" "	White Chartier.
	" "	1834.
	Long White Vienna.	Landreths' Long White Lady Finger.
	" "	Livingston's New Pearl.
	New Bright Scarlet.	Amazement.
	" "	French Cafe.
	" "	Startle.
	" "	Wonderful.
	Raphanus Caudatus.	Edible-pod.
	" "	Rat-tailed.
	Scarlet Globe.	Carmine Globe.
	" "	Extra Early Carmine.
	" "	Prussian Globe.
	" "	Rosy Gem.
	" "	Scarlet of France.
	Scarlet Olive Shaped.	Henderson's Red Rocket.
	" "	Johnson & Stokes' Startle.
	Scarlet Olive, White Tip.	French Breakfast.
	Scarlet Turnip, White Tip.	Henderson's Rapid Forcing.
	" "	Royal Red Forcing.
	" "	Ruby Pearl.
	" "	White-tipped Scarlet Ball.

Generic Name.	Recognized Specific Name.	Synonyms.
Radish, *Con*	Triumph.	Striped.
	White Olive Shaped.	Newcome.
	" "	White Rocket.
	White Turnip.	Summer White.
	" "	White Box.
	Wood's Early Frame.	Chartier.
	" " "	Cincinnati Market.
	" " "	Glass.
	" " "	Shephard's Long Rose.
	Yellow Summer.	Golden Globe.
	" "	Golden Perfection.
Rape	English Rape.	Dwarf Essex.
	" "	Spring Sprouts.
Salsify	Sandwich Island.	Improved Mammoth.
	Scorzonera.	Black Salsify.
Spinach	Bloomsdale Curled Savoy.	Curled Savoy.
	" "	Landreth.
	" "	Norfolk Savoy.
	Enkhuisen.	Long Standing.
	"	Thick Leaf.
	Orach.	French Spinach.
	"	New Zealand.
	Victoria.	Ever-ready.
	"	Johnson and Stokes' Long Standing.
	"	New Parisian.
	Viroflay.	Belgium Evergreen.
	"	Improved Thick-leaved.
Squash	Boston Marrow.	Autumnal Marrow.
	Early Orange Marrow.	Chicago Orange Marrow.
	" "	Colvin's Early Marrow.
	" "	Dunlap's Early Marrow.
	" "	Early Prolific Marrow.

Generic Name.	Recognized Specific Name.	Synonyms.
Squash, *Con*	Early Orange Marrow.	Extra Early Marrow.
	Early White Bush.	Cymbling.
	" "	Patty Pan.
	Essex Hybrid.	American Turban.
	" "	Hard Shell Turban.
	" "	Red Turban.
	" "	Warren.
	Green Summer Crookneck.	Strickler's Green Summer.
	Marblehead.	Blue Hubbard.
	Pike's Peak.	Sibley.
	White Pine Apple.	Cocoanut.
	" "	White Turban.
	Winter Crookneck.	Canada Crookneck.
	" "	Cashaw.
	Yellow Bush.	Extra Early Bush.
	Yellow Summer Crookneck.	Golden Crookneck.
	" "	Summer Warted.
Tomato	Acme.	Essex Hybrid.
	"	The Honey.
	Atlantic Prize.	Earliest of All.
	" "	Early Ruby.
	" "	Extra Early Richmond.
	" "	Improved Atlantic Prize.
	" "	Money Maker.
	Cook's Favorite.	Canada Victor.
	" "	Hathaway's Excelsior.
	Currant.	Grape.
	Dwarf Champion.	Meteor.
	" "	Station.
	" "	Tree.
	" "	Upright.
	Early Jersey.	Advance.

Generic Name.	Recognized Specific Name.	Synonyms.
Tomato, *Con*....	Early Jersey.	Alpha.
	"	Belmont.
	"	Cumberland Red.
	"	Conqueror.
	"	Early Cluster.
	Fejee.	Beefsteak.
	Golden Trophy.	Golden Queen.
	"	Lemon Blush.
	"	Queen of the Yellows.
	"	Sunrise.
	"	The Shah.
	Husk.	Barbados Gooseberry.
	"	Ground Cherry.
	"	Mexican.
	"	Strawberry.
	"	Winter Cherry.
	Ivory Ball.	Green Gage.
	Livingston's Beauty.	Baltimore Prize Taker.
	" "	Cincinnati Purple.
	" "	Climax.
	" "	Lay Keeper.
	" "	New Hybrid.
	" "	Table Queen.
	" "	Truckers' Favorite.
	" "	Volunteer.
	Livingston's Favorite.	Bell.
	" "	Brandywine.
	" "	Cardinal.
	" "	Mayflower.
	" "	Optimus.
	" "	Red Cross.
	" "	Scovill's Hybrid.
	Paragon.	Baltimore Queen.
	"	Brinton's Best.
	"	New Queen.

Generic Name.	Recognized Specific Name.	Synonyms.
Tomato, *Con*	Paragon.	Improved Queen.
	"	Red Queen.
	"	Royal Red.
	"	Ten Ton.
	Ponderosa.	Four Hundred.
	Red Pear.	Red Plum.
	Spark's Earliana.	Montebello.
	Turner's Hybrid.	Lorillard.
	"	Mikado.
	"	Potato-Leaved.
	"	1600 Dollar.
	Stone.	Red Beauty.
	Yellow Pear.	Fig.
Turnip	Amber Globe.	Yellow Globe.
	"	Yellow Stone.
	Carter's Elephant Ruta Baga.	Hurst's Monarch Ruta Baga.
	" "	Jumbo Ruta Baga.
	" "	Monarch King Ruta Baga.
	" "	Monarch Tankard Ruta Baga.
	Champion Swede Ruta Baga.	Landreths' Improved Purple-Top Yellow Ruta Baga.
	" "	Purple-Top Yellow Ruta Baga.
	" "	Yellow Swede Ruta Baga.
Turnip	Cow Horn.	Large Cropper.
	" "	White Tankard.
	Golden Ball.	Orange Jelly.
	Long Island Yellow Ruta Baga.	Bloomsdale Yellow Ruta Baga.
	Purple Top.	Red Top.

Generic Name.	Recognized Specific Name.	Synonyms.
Turnip, *Con.*	Scarlet Kashmyr.	Cardinal.
	Seven Top.	Forester.
	" "	Turnip Winter Greens.
	Southern Prize.	Dixie Land.
	Sweet German.	Breadstone.
	" "	Budlong.
	" "	Rock.
	White Egg.	Extra Early White French.
	White Stone.	Snow Ball.
	" "	White Stubble.
	Yellow Aberdeen.	Yellow Scotch.

PUTTING UP SEED PACKETS.

Put up your own seed packets and advertise yourself. Build up your own reputation, not somebody else's. Besides, the cost will be much smaller. Putting them up yourself, the average cost of 5-cent packets should not exceed $6.00 per 1,000 as against $20.00 or $25.00 per 1,000 that you possibly have been paying when put up by somebody else.

The following are manufacturers' average prices for illustrated seed bags, and on the succeeding pages are given Tables of Standard Quantities of Seeds, both of Vegetables and Flowers, that will enable you to fill your own packets in a systematic and economic manner. These Tables are similar to those used by the larger wholesale Seed Houses, the quantities having been carefully gauged to cover what is required for sowing in an ordinary family garden.

Average Prices for Empty Illustrated Seed Bags, pictured in colors, bearing name of variety, directions for culture, and address of seed dealer.

100,000 lots—$1.00 per 1,000.
50,000 lots—$1.10 per 1,000.
25,000 lots—$1.25 per 1,000.
10,000 lots—$1.50 per 1,000.
Less than 10,000 lots—$1.75 per 1,000.

See pages 11–19 for addresses of Manufacturers of Seed Bags.

TABLE OF STANDARD QUANTITIES, FOR FILLING FULL QUANTITY OR 5-CENT PACKETS, OF VEGETABLE SEEDS.

	Quantity.	
Asparagus	$\frac{1}{4}$	oz.
Beans, all varieties	$\frac{1}{8}$	pt.
Beet, Standard Table varieties	$\frac{1}{3}$	oz.
Beet, Standard Field varieties	$\frac{1}{2}$	"
Cabbage, Standard varieties	$\frac{1}{6}$	"
Carrot, Standard varieties	$\frac{1}{3}$	"
Celery, Standard varieties	$\frac{1}{8}$	"
Celery, Fancy varieties	$\frac{1}{12}$	"
Chicory	$\frac{1}{4}$	"
Collards	$\frac{1}{5}$	"
Corn, Sugar, Standard varieties	$\frac{1}{8}$	pt.
Corn Salad	$\frac{1}{3}$	oz.
Cress, curled	$\frac{1}{3}$	"
Cress, water	$\frac{1}{10}$	"
Cucumber, Standard varieties	$\frac{1}{3}$	"
Cucumber, in short season	$\frac{1}{10}$	"
Dandelion	$\frac{1}{10}$	"
Egg Plant	$\frac{1}{16}$	"
Endive	$\frac{1}{5}$	"
Kale	$\frac{1}{4}$	"
Kohl Rabi	$\frac{1}{8}$	"
Leek	$\frac{1}{5}$	"
Lettuce, Standard varieties	$\frac{1}{4}$	"
Melon, Musk, Standard varieties	$\frac{1}{3}$	"
Melon, Water, Standard varieties	$\frac{1}{3}$	"
Mustard	$\frac{1}{4}$	"

	Quantity.
Okra	$\frac{1}{3}$ oz.
Onion	$\frac{1}{5}$ "
Onion, fancy sorts	$\frac{1}{8}$ "
Parsley	$\frac{1}{4}$ "
Parsnip	$\frac{1}{3}$ "
Peas, Standard varieties	$\frac{1}{8}$ pt.
Pepper	$\frac{1}{16}$ oz.
Pumpkin	$\frac{1}{4}$ "
Radish	$\frac{1}{2}$ "
Rhubarb	$\frac{1}{12}$ "
Salsify	$\frac{1}{4}$ "
Spinach	$\frac{1}{2}$ "
Squash	$\frac{1}{4}$ "
Tomato	$\frac{1}{12}$ "
Herbs	$\frac{1}{6}$ "

TABLE OF STANDARD QUANTITIES FOR FILLING FLOWER-SEED PACKETS.

	Quantity.	*Retail Price per Packet.*
Abutilon, mixed	25 seeds	.10
Ageratum, Mexicanum	$\frac{1}{10}$ oz.	.05
Ageratum, Tom Thumb, mixed	$\frac{1}{20}$ "	.05
Aquilegia	$\frac{1}{10}$ "	.05
Alyssum Saxatile	$\frac{1}{12}$ "	.05
Alyssum, Sweet	$\frac{1}{12}$ "	.05
Antirrhinum, Majus	$\frac{1}{16}$ "	.05
Aster, Comet	$\frac{1}{20}$ "	.10
Aster, Semple's	$\frac{1}{20}$ "	.10
Aster, Truffaut's Pæony	$\frac{1}{30}$ "	.10
Balsam, Camellia-Flowered	$\frac{1}{30}$ "	.05
Balsam, Separate Colors	$\frac{1}{30}$ "	.10
Bellis, Double Daisy, mixed	$\frac{1}{60}$ "	.05
Bellis, Double Snowball	$\frac{1}{60}$ "	.10
Calceolaria Hybrida	250 seeds	.25
Calendula, Double mixed	$\frac{1}{6}$ oz.	.05

	Quantity.	*Retail Price per Packet.*
Calendula, Favorite	$\frac{1}{6}$ oz.	.10
Calliopsis, Golden Wave	$\frac{1}{8}$ "	.05
Calliopsis, mixed	$\frac{1}{6}$ "	.05
Campanula, single	$\frac{1}{6}$ "	.05
Campanula, double	$\frac{1}{20}$ "	.05
Candytuft, Crimson and White	$\frac{1}{6}$ "	.05
Candytuft, Giant Hyacinth	$\frac{1}{12}$ "	.10
Candytuft, mixed	$\frac{1}{6}$ "	.05
Carnation, Choice Double mixed	$\frac{1}{40}$ "	.15
Carnation, Marguerite	$\frac{1}{20}$ "	.10
Celosia, mixed	$\frac{1}{20}$ "	.05
Celosia, Queen of Dwarfs	$\frac{1}{30}$ "	.10
Centaurea Cyanus	$\frac{1}{6}$ "	.05
Centaurea Imperialis, White	$\frac{1}{10}$ "	.10
Chrysanthemum	$\frac{1}{8}$ "	.05
Cineraria, Finest mixed	$\frac{1}{32}$ "	.25
Cobea Scandens	$\frac{1}{20}$ "	.05
Coleus, Giant Copper-leaved	50 seeds	.15
Coleus, mixed	40 seeds	.05
Cosmos, mixed	$\frac{1}{8}$ oz.	.05
Cosmos, Separate Colors	$\frac{1}{6}$ "	.10
Cypress Vine	$\frac{1}{6}$ "	.05
Cyclamen	40 seeds	.10
Dahlia, Cactus	$\frac{1}{24}$ oz.	.10
Dahlia, mixed	$\frac{1}{20}$ "	.05
Delphinium	$\frac{1}{10}$ "	.05
Dianthus, China Pink	$\frac{1}{10}$ "	.05
Dolichos	$\frac{1}{6}$ "	.05
Escholtzia, Golden West	$\frac{1}{10}$ "	.05
Euphorbia Heterophylla	$\frac{1}{32}$ "	.10
Euphorbia Marginata	$\frac{1}{10}$ "	.05
Everlastings, Acroclinium	$\frac{1}{10}$ "	.05
Everlastings, Gomphrena	$\frac{1}{10}$ "	.05
Feverfew	$\frac{1}{20}$ "	.05

	Quantity.	*Retail Price per Packet.*
Forget-Me-Not	$\frac{1}{32}$ oz.	.05
Fuchsia	25 seeds	.15
Gaillardia	$\frac{1}{12}$ oz.	.05
Geranium Pelargonium	25 seeds	.25
Geranium Zonale	20 seeds	.10
Gloxinias	30 seeds	.25
Gourds	$\frac{1}{8}$ oz.	.05
Gypsophilla	$\frac{1}{6}$ "	.05
Helichrysum	$\frac{1}{16}$ "	.10
Heliotrope	$\frac{1}{32}$ "	.10
Hollyhock, Allegheny	$\frac{1}{24}$ "	.10
Hollyhock, mixed	$\frac{1}{24}$ "	.05
Ipomea, Bona Nox	$\frac{1}{6}$ "	.05
Lantana	$\frac{1}{6}$ "	.10
Larkspur	$\frac{1}{10}$ "	.05
Linaria	$\frac{1}{32}$ "	.10
Lobelia Compacta	$\frac{1}{12}$ "	.05
Lobelia, White Gem	$\frac{1}{32}$ "	.10
Lychnis	$\frac{1}{10}$ "	.05
Marigold	$\frac{1}{10}$ "	.05
Marvel of Peru	$\frac{1}{6}$ "	.05
Mignonette	$\frac{1}{4}$ "	.05
Mimulus	$\frac{1}{32}$ "	.05
Momordica	$\frac{1}{10}$ "	.05
Moonflower	$\frac{1}{8}$ "	.10
Morning Glory	$\frac{1}{6}$ "	.05
Nasturtium	$\frac{1}{6}$ "	.05
Pansy, Extra Select	$\frac{1}{32}$ "	.15
Pansy, Fancy	$\frac{1}{32}$ "	.10
Pansy, Ordinary mixed	$\frac{1}{32}$ "	.05
Petunia Hybrida, mixed	$\frac{1}{32}$ "	.05
Petunia, Ruffled Giant	50 Seeds.	.15
Phlox Drummondii, mixed	$\frac{1}{20}$ oz.	.05
Phlox Drummondii, Nana Compacta.	$\frac{1}{32}$ "	.10

	Quantity.	*Retail Price per Packet.*
Poppy	$\frac{1}{8}$ oz.	.05
Primula Sinensis	25 Seeds.	.20
Pyrethrum	$\frac{1}{16}$ oz.	.10
Ricinus	$\frac{1}{8}$ "	.05
Salpiglossis Grandiflora	$\frac{1}{20}$ "	.10
Salpiglossis, mixed	$\frac{1}{20}$ "	.05
Salvia	$\frac{1}{32}$ "	.10
Scabiosa	$\frac{1}{6}$ "	.05
Sensitive Plant	$\frac{1}{12}$ "	.05
Smilax	$\frac{1}{16}$ "	.05
Stocks, Giant Perfection	$\frac{1}{48}$ "	.10
Stocks, Ten Weeks	$\frac{1}{32}$ "	.05
Sunflower, Chrysanthemum	$\frac{1}{5}$ "	.10
Sweet Peas	$\frac{1}{4}$ "	.05
Sweet William	$\frac{1}{8}$ "	.05
Thunbergia	$\frac{1}{24}$ "	.05
Verbena Hybrida, mixed	$\frac{1}{24}$ "	.05
Vinca, mixed	$\frac{1}{24}$ "	.05
Vinca, Separate Colors	$\frac{1}{24}$ "	.10
Viola Odorata	$\frac{1}{48}$ "	.10
Wallflower	$\frac{1}{48}$ "	.10
Zinnia, Curled and Crested	$\frac{1}{12}$ "	.10
Zinnia, Ordinary mixture	$\frac{1}{12}$ "	.05

PUBLISHING A CATALOGUE.

It will pay every seed-dealer, doing a fair amount of business, to issue a catalogue of his own, which may also be used for listing other goods that are handled. As an advertising scheme, a catalogue is the best form. It should be mailed or given to every user of seeds in the dealer's locality. That trade will thereby be kept at home, which is now called away in response to catalogues mailed by seedsmen in other cities.

The best way to go about getting up a catalogue is to obtain a number of catalogues from different seed houses, take a day off and study the catalogues over carefully, making comparison of one with another. By doing this you will soon catch on to the idea. Seed catalogues naturally all run pretty much alike, as to description of things offered.

Use your scissors freely, cut out such matter as meets your purpose from one catalogue, some from another and so on. Present a novelty or two. See the list of synonyms for an idea of the method by which "novelties" usually are originated—a piratical custom that seemingly continues to be winked at with good-natured indifference by the trade. Novelties fetch better prices by the pound, ounce or packet. Some folks are always looking out for novelties. They are never deceived.

For no two individuals are precisely alike, any more than two leaves on the same tree. There is, to be sure, family resemblance, but certain dissimilarity may be traced, to be called novelty, if you like.

The catalogue business, particularly as to seeds, therefore flourishes, and will continue to do so, so long as there are people looking for novelties. Madam, if it is a lady, looks over the seed catalogues at hand, reads the dazzling (ofttimes hair-raising) descriptions of the new things offered and straightway she makes up her mind to send for them. While she is writing out the order, she concludes she may as well make one job of it and get the standard, common varieties from the same source. Thus the enterprising catalogue man swoops the whole seed trade of that family, which, were it not for the "novelties," the home store might have had.

Before giving the catalogue out to be printed, obtain estimates from several different printers for the same class of work; they are not always uniform in their rates. Electros of Vegetables and Flowers, duplicates of what are used by Seedsmen, can be obtained at reasonable prices from the dealers whose addresses are given on page 46.

LAWN-GRASS SEED AND LAWN FERTILIZER.

It will be found cheaper and more satisfactory for the dealer to prepare his own Lawn-Grass Seed and Lawn Fertilizer. The processes are simple. Following are given the best Formulas extant for their manufacture.

Formula for Making Central Park, Fairmount Park or Evergreen Lawn-Grass Seed.

40 lbs. Kentucky Blue Grass, extra clean.
10 lbs. Perennial Rye Grass.
5 lbs. Sweet Vernal.
5 lbs. White Clover.
Mix thoroughly.

The above makes the very finest mixture; there can be nothing better. What are styled "ordinary" and "popular" mixtures are prepared by omitting Sweet Vernal and White Clover altogether, or by omitting Sweet Vernal and reducing quantities of White Clover, Rye and Blue Grass, and substituting a proportion of Red Top. Blue Grass forms the chief element in Lawn Grass, and there should always be a good proportion of it.

Formula for Making the Best Lawn-Grass Seed for Shady Places.

25 lbs. Kentucky Blue Grass, extra clean.
25 lbs. Hard Fescue Grass.
50 lbs. Orchard Grass.
Mix thoroughly.

Formula for Making a First-Class Lawn Fertilizer.

600 lbs. Bone Meal.
75 lbs. Guano.
40 lbs. Salt.
Mix thoroughly.

BUSINESS SUCCESS.

All about us in the business world are seen instances of men we know, who once had stood proudly at the top-most round in their business or professional career, but now are struggling along down at the foot. Through their one-time enthusiasm of purpose (which seems to possess every one some time or other in his career) those we speak of had accomplished a measure of success. But after gaining the pinnacle, they had committed the fatal error of relaxing their strenuousness and showing a willingness, thenceforth, to subsist on the glory of what had been performed,—with the usual result that while they were thus posing on their laurels, another set of men, who had entered the field of action, with fresher blood, later and superior ideas and methods, imbued with that same enthusiasm of purpose to attain success, had pushed forward with rude force and, shoving them unceremoniously from their former position, have clambered there themselves. And in like manner these last masters of the situation will in turn be jostled from their perch by others of the same calibre coming after them, unless they too are ever mindful of the inexorable laws of individualism and progress.

Don't relax your efforts in business. *Keep moving.*

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